

11. **Gray DM**, Zar H, Cotton M. Impact of tuberculosis preventive therapy on tuberculosis and mortality in HIV-infected children. *Cochrane Database Syst Rev* 2009;(1):CD006418.
12. **Madhi SA**, Nachman S, Violar A, *et al.* Lack of efficacy of primary isoniazid (INH) prophylaxis in increasing tuberculosis (TB) free survival in HIV-infected (HIV+) South African children. 48th Interscience Conference on Antimicrobial Agents and Chemotherapy, 25–28 October 2008. Washington. Abstract G2–1346a.
13. **Anon.** *Guidance for National Tuberculosis and HIV Programmes on the Management of Tuberculosis in HIV-Infected Children: Recommendations for a Public Health Approach.* Geneva, Switzerland: World Health Organization, 2010.
14. **Golub JE**, Saraceni V, Cavalcante SC, *et al.* The impact of antiretroviral therapy and isoniazid preventive therapy on tuberculosis incidence in HIV-infected patients in Rio de Janeiro, Brazil. *AIDS* 2007;**21**:1441–8.
15. **Golub JE**, Pronyk P, Mohapi L, *et al.* Isoniazid preventive therapy, HAART and tuberculosis risk in HIV-infected adults in South Africa: a prospective cohort. *AIDS* 2009;**23**:631–6.
16. **Marais BJ**, Hesselning AC, Gie RP. The burden of childhood tuberculosis and the accuracy of routine surveillance data in a high-burden setting. *Int J Tuberc Lung Dis* 2006;**10**:259–63.
17. **Anon.** *Antiretroviral Therapy of HIV Infections in Infants and Children: Towards Universal Access. Recommendations for a Public Health Approach.* Geneva, Switzerland: World Health Organization, 2006.
18. **Gray D**, Nuttall J, Lombard C, *et al.* Low rates of hepatotoxicity in HIV-infected children on anti-retroviral therapy with and without isoniazid prophylaxis. *J Trop Pediatr* 2010;**56**:159–65.
19. **le Roux SM**, Cotton MF, Golub JE, *et al.* Adherence to isoniazid prophylaxis among HIV-infected children: a randomized controlled trial comparing two dosing schedules. *BMC Med* 2009;**7**:67.
20. **Hung CC**, Chen MY, Hsiao CF, *et al.* Improved outcomes of HIV-1-infected adults with tuberculosis in the era of highly active antiretroviral therapy. *AIDS* 2003;**17**:2615–22.
21. **Kampmann B**, Tena-Coki GN, Nicol MP, *et al.* Reconstitution of antimycobacterial immune responses in HIV-infected children receiving HAART. *AIDS* 2006;**20**:1011–18.
22. **Akolo C**, Adetifa I, Shepperd S, *et al.* Treatment of latent tuberculosis infection in HIV infected persons. *Cochrane Database Syst Rev* 2010;(1):CD000171.
23. **Anon.** *Global Tuberculosis Control: Epidemiology, Strategy, Financing: WHO Report 2009.* Geneva: World Health Organization, 2009.

Journal club

Gefitinib as first-line treatment in advanced NSCLC with mutated EGFR

Non-small cell lung cancer (NSCLC) is a leading cause of cancer deaths. Standard cytotoxic chemotherapy has a response rate of only 20–35% and median survival among patients with advanced NSCLC is between 10 and 12 months. Gefitinib, an epidermal growth factor receptor (EGFR) tyrosine kinase inhibitor, is used in patients with NSCLC with sensitive mutations of EGFR, and this study sought to compare the efficacy and safety of gefitinib with standard chemotherapy.

Two hundred and thirty patients with metastatic NSCLC and positive EGFR mutations who had previously received no chemotherapy were randomly assigned to receive either gefitinib or carboplatin-paclitaxel. Interim analysis of the first 200 patients showed that median progression-free survival was significantly longer in the gefitinib group than in the standard chemotherapy group. Other efficacy outcome measures included a higher response rate and better median overall survival in the gefitinib group.

While the grouped analysis for significant toxic effects (as graded by the National Cancer Institute Common Terminology Criteria) demonstrated a superior toxicity profile for gefitinib compared with carboplatin-paclitaxel, striking differences were evident. Neutropenia, anaemia and thrombocytopenia were most commonly observed with traditional chemotherapy, as were arthralgia and sensory neuropathy. In contrast, rashes, raised aminotransferase levels and sensory neuropathy were statistically more likely to occur among those receiving gefitinib, as was pneumonitis, with one death being observed from interstitial lung disease in this trial arm.

This study demonstrates a relative superiority in terms of progression-free survival for gefitinib compared with standard chemotherapy for patients with advanced NSCLC, provided that they are selected on the basis of sensitive EGFR mutations.

► **Maemondo M**, Inoue A, Kobayashi K, *et al.* Gefitinib or chemotherapy for non-small cell lung cancer with mutated EGFR. *N Engl J Med* 2010;**362**:2380–8.

Salma Naheed

Correspondence to Salma Naheed, Royal London Hospital, Whitechapel Road, Whitechapel, London, E1 8PR, UK; salma.naheed@gmail.com

Published Online First 22 October 2010

Thorax 2011;**66**:501. doi:10.1136/thx.2010.151308